REMARKS

Pursuant to the Examiner's request, the preamble of claim 1 has been amended to clearly

indicate that the invention is directed to a thin coating film provided on a substrate.

Claims 1-9 stand rejected under 35 U.S.C. § 102(b) as being anticipated by WO 97/48774

to Araki et al. The grounds for rejection remain the same as set forth in the previous Office

Action.

In the "Response to Arguments" in paragraph 4 of the Office Action dated February 21,

2003, the Examiner points to Araki et al at col. 10, lines 10-22 (corresponding U.S. 6,207,236) as

teaching a layer comprising as much as 85 vol% of fluorine-containing polymer particles

uniformly dispersed in a metal oxide gel. In the Examiner's view, this is a layer comprising a

continuous layer of polymer particles. The Examiner also points out that claim 8 is directed to

an aqueous dispersion, but not to a continuous layer.

Applicants respond as follows.

Pursuant to the Examiner's suggestion in the telephone interview of February 11, 2003,

claim 1 has been amended to recite that the invention is directed to a thin coating film

[comprising] consisting essentially of a continuous layer of fluorine-containing polymer. The

amendment to claim 1 employing the transitional language "consisting essentially of" excludes

the metal oxide of Araki et al in an amount of 15% or more which materially affects the basic

and novel characteristics of the claimed thin coating film. In this regard, Applicants advise as

follows.

When the content of the metal oxide is 15% or more, the resulting film tends to be rigid

and fragile, and the formation of a transparent thin film becomes difficult. Although not

3

PRELIMINARY AMENDMENT

U.S. Application No.: 09/763,412

explicitly described in the present specification, one of ordinary skill can reasonably reach such

conclusion based on the disclosure of the specification as a whole.

Moreover, Araki et al (U.S. 6,207,236) at col. 10, lines 16-19 teaches that "when an

amount of the fluorine-containing polymer (A) having functional group is too much,

transparency of the coating film is lowered and the coating film becomes fragile." Thus, the

reference itself recognizes the difference between a coating film consisting essentially a

continuous layer of a fluorine-containing polymer as compared to one containing a metal oxide

in an amount of 15% (or more).

Additionally, claim 8 has been canceled, and claim 9 has been amended to depend

directly from claim 1.

Entry of the amendments and allowance of claims 1-7 and 9 is earnestly solicited.

In the event that the Examiner believes that it may be helpful to advance prosecution of

this application, the Examiner is invited to contact the undersigned at the local Washington, D.C.

telephone number indicated below.

Respectfully submitted,

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WASHINGTON OFFICE

PATENT TRADEMARK OFFICE

Date: June 20, 2003

4

PRELIMINARY AMENDMENT

U.S. Application No.: 09/763,412

APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Claim 9 is canceled.

The claims are amended as follows:

A thin coating film on a substrate, said thin coating film having a 1. (Amended)

thickness of less then 3 µm and [comprising] consisting essentially of a continuous layer of

fluorine-containing polymer formed by adhering directly to a substrate, said fluorine-containing

polymer in the coating film having a hydrophilic functional group and a crystalline melting point

of said fluorine-containing polymer being not less than 200°C.

9. A method of forming the thin coating film of Claim 1, (Twice Amended)

which comprises coating [the] an aqueous dispersion [of Claim 8] on a substrate and sintering at

a temperature of not less than a crystalline melting point of the fluorine-containing polymer

contained therein, wherein the aqueous dispersion comprises 0.1 to 70% by weight of fluorine-

containing polymer having a hydrophobic functional group in the form of fine particles having a

particle size of 1 to 200 nm and 30 to 99.9% by weight of water.

5